

1m (3ft) LC to LC (UPC) OM4 Multimode Fiber Optic Cable, 50/125m LOMMF/VCSEL Zipcord Fiber, 100G, Low Insertion Loss - LSZH Fiber Jumper Cord

**Product ID:** 450FBLCLC1



The LC to LC Multimode Duplex Fiber Optic Patch cable facilitates reliable connectivity across 40 and 100 Gigabit networks.

With laser-optimized multimode fiber (LOMMF), the OM4 fiber patch cable is ideal for 850 nm and 1350 nm Vertical Cavity Surface Emitting Laser (VCSEL) and LED sources. Precision-manufactured ceramic ferrules ensure correct fiber alignment to prevent connectivity issues and minimize insertion loss. Designed for reliability in high-density network applications, the LC to LC UPC polished fiber ends greatly improves return loss characteristics over older PC polishing techniques which may negatively affect performance.

This multimode 50/125m fiber optic patch cord is backward compatible with OM3 and 1/10/40 Gbps networks, ensuring a reliable connection with legacy fiber environments.

Housed in a LSZH (Low-Smoke, Zero-Halogen) flame-retardant jacket, this OM4 fiber cable emits low smoke and toxic fumes when exposed to high heat or in the event of a fire. It enables safer cable installations in areas with poor ventilation including some industrial settings, self-contained environments such as trains and aircraft, as well as residential settings where building codes are a consideration.

Each OM4 fiber cable is also individually tested and certified to be within acceptable optical insertion loss limits for guaranteed compatibility and 100% reliability.

## Certifications, Reports and Compatibility



## Applications

- Use in 40/100 Gigabit Ethernet and Fiber Channel applications
- Supports VCSEL laser and LED light sources

## Features

- **OM4 FIBER CABLE:** OM4 Laser-Optimized Multimode Fiber Cable is immune to EMI and supports up to 100 Gbps Ethernet; Full-duplex zip-cord with color-coded TX/RX connectors enable quick visual identification of polarity and conversion to simplex cabling
- **QUALITY CONSTRUCTION:** LC/LC connectors with UPC polished ends significantly improves return loss over PC polish; Robust molded connector strain reliefs minimizes wear from bending; Protective Aramid fiber for increased tensile strength
- **SAFETY AND RELIABILITY:** Individually tested for signal integrity; LSZH jacket emits low-smoke and toxic fumes if combusted; Attenuation value under 2.3dB/km meets or exceeds industry standards
- **WIDE COMPATIBILITY:** OM4 LC/LC multimode cable supports 1/10/40/100 Gbps networks; Backward compatible with OM3; For high-density network applications such as SANs, data servers, fiber switches, SFP+, QSFP+, and QSFP28 transceivers
- **SPECS:** 1m (3.3ft); Color: Aqua (OM4); LC/LC UPC; 50/125µm Core/Cladding; 850nm or 1300nm LED/VCSEL; Modal Bandwidth: 2000MHz/km at 850nm; Cable OD: 2.9mm; Bend Radius: Static 1.2in (3cm), Dynamic 2.4in (6cm); Backed for Life

### Hardware

|                       |                                     |
|-----------------------|-------------------------------------|
| Warranty              | Lifetime                            |
| Fiber Size            | 50/125                              |
| Cable Jacket Material | Low Smoke Zero Halogen              |
| Fire Rating           | LSZH Rated (Low Smoke Zero Halogen) |
| Fiber Classification  | OM4                                 |

### Performance

|                            |                                   |
|----------------------------|-----------------------------------|
| Maximum Data Transfer Rate | 100Gbps                           |
| Cable Rating               | 1Gbps / 10Gbps / 40Gbps / 100Gbps |
| Type                       | Multi Mode                        |
| Wavelength                 | 850nm                             |

### Connector(s)

|                                 |                           |                           |
|---------------------------------|---------------------------|---------------------------|
|                                 | Connector A               | 1 - Fiber Optic LC Duplex |
|                                 | Connector B               | 1 - Fiber Optic LC Duplex |
| <b>Environmental</b>            |                           |                           |
|                                 | Operating Temperature     | -20C to 60C (-4F to 140F) |
|                                 | Storage Temperature       | -20C to 60C (-4F to 140F) |
|                                 | Humidity                  | 0~90% RH                  |
| <b>Physical Characteristics</b> |                           |                           |
|                                 | Color                     | Aqua                      |
|                                 | Cable Length              | 3.3 ft [1 m]              |
|                                 | Product Length            | 3.3 ft [1.0 m]            |
|                                 | Product Width             | 0.6 in [1.5 cm]           |
|                                 | Product Height            | 0.4 in [1.1 cm]           |
|                                 | Weight of Product         | 0.7 oz [20.0 g]           |
| <b>Packaging Information</b>    |                           |                           |
|                                 | Package Quantity          | 1                         |
|                                 | Package Length            | 4.7 in [12.0 cm]          |
|                                 | Package Width             | 7.8 in [19.8 cm]          |
|                                 | Package Height            | 0.8 in [2.0 cm]           |
|                                 | Shipping (Package) Weight | 1.1 oz [30.0 g]           |
| <b>What's in the Box</b>        |                           |                           |
|                                 | Included in Package       | 1 - LC fiber-optic cable  |
| <b>Warranty Information</b>     |                           |                           |
|                                 | Warranty                  | Lifetime                  |

*\*Product appearance and specifications are subject to change without notice.*